



2.32

35SD10-4754B TYPE

Solenoid Directional Valve

Rated pressure (bar / psi)	240 / 3500
Peak flow (L/min / gpm)	22.7 / 6

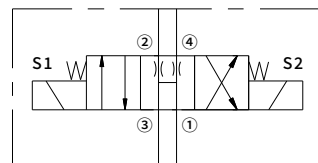
Features

- Continuous-duty rated coil
- Cartridges are voltage interchangeable
- Optional waterproof E-Coils rated up to IP69K
- Efficient wet-armature construction
- Industry common cavity
- Hardened parts for long life

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Symbol



Description

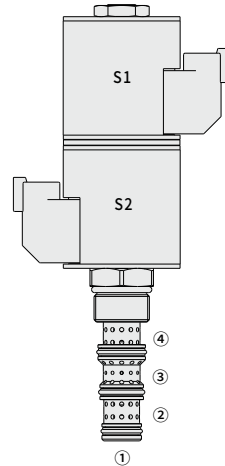
A solenoid-operated, 4-way, 3-position, direct-acting, spool-type, open center, screw-in hydraulic cartridge valve.

Operation

When de-energized, the valve opens all ports ①, ②, ③ and ④.

When coil #1(S1) is energized, flow is allowed from ③ to ②, and from ④ to ①.

When coil #2(S2) is energized, flow is allowed from ③ to ①, and from ④ to ②.



Ordering Code

35SD10-4754B		-	-	-	-	-	-	-
Option:	None	Blank						
Cartridge only		0						
Seals:	Polyurethane (Std.)		P					
	Buna N		N					
	Fluorocarbon		V					
				Voltage				
				Std. Coil:				
				Less Coil	00			
				10VDC	10			
				12VDC	12			
				20VDC	20			
				24VDC	24			
						Termination (VDC)		
						E-Coil:		
						Amp Junior Timer	EJ	
						(IP67 Rated)		
						Deutsch DT04-2P	ER	
						(IP69K Rated)		
						DIN 43650	EG	
						(IP65 Rated)		
						Termination (VDC)		
						D-Coil:		
						Dual Spades	DS	
						(SAE J858a, IP65K Rated)		

Materials

Cartridge:

Weight: 0.30 kg; Steel with hardened work surfaces. Zinc-plated exposed surfaces; Polyurethane (Std.) seal.

Standard Ported Body:

Anodized high-strength aluminum alloy, rated to 240 bar; Ductile iron and steel bodies available; Dimensions may differ, consult factory.

Standard Coil: Consult factory.

E-Coil:

Weight: 0.41 kg; Perfect wound, fully encapsulated with rugged external metal shell; Rated up to IP69K with Deutsch sockets.

Technical Data

Rated pressure	240 bar (3500 psi)	
Peak flow	22.7 L/min (6 gpm)	
Internal leakage	≤ 328 mL/min@240 bar	
Coil duty rating	Continuous from 85% to 115% of nominal voltage	
Initial coil current draw at 20°C	E-Coil	1.7 A at 12VDC; 0.85 A at 24VDC
	D-Coil	1.67 A at 12VDC; 0.83 A at 24VDC
Minimum pull-in voltage	85% of nominal at 240 bar	
Cavity	VC10-4 (See technical reference)	
Fluid	Mineral-based or synthetics with lubricating properties	
Viscosity range	7.4 to 420 mm ² /s	
Temperature range	-54 to 107 °C (Polyurethane seals)	
	-40 to 100 °C (Buna N seals)	
	-26 to 204 °C (Fluorocarbon seals)	
Degree of fluid contamination	The minimum pollution level is ISO4406 level 18/16/13, and level 15/13/11 is recommended to prolong the service life	

Performance (Cartridge Only)

32cSt/150 sus oil at 40°C

